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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,004	02/	/08/2002	Woo Young So	1514.1010	6442
49455	7590	07/06/2006		EXAMINER	
STEIN, MC		•	SEFER, A	SEFER, AHMED N	
1400 EYE STREET, NW				ART UNIT	PAPER NUMBER
SOITE 300				2826	
Wildim 37311, BC 2003				DATE MAIL ED: 07/06/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/068,004	SO ET AL				
Office Action Summary	Examiner	Art Unit				
	A. Sefer	2826				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	th the correspondence address	s			
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILII - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicated if NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MON y statute, cause the application to become Al	CATION. eply be timely filed ITHS from the mailing date of this commun BANDONED (35 U.S.C. § 133).				
Status						
 Responsive to communication(s) filed on This action is FINAL. Since this application is in condition for a closed in accordance with the practice un 	This action is non-final. llowance except for formal mat	·	rits is			
Disposition of Claims						
 4) ☐ Claim(s) 12,14-16,22 and 24-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) 22,24,25 and 27 is/are allowed. 6) ☐ Claim(s) 12 and 14 is/are rejected. 7) ☐ Claim(s) 15,16,26 and 28 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Example 10) The drawing(s) filed on 29 September 200 Applicant may not request that any objection Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the specific sheet of the specific sheet (s) including the country.	<u>05</u> is/are: a)⊠ accepted or b)[to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.	121(d).			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94)		Summary (PTO-413) s)/Mail Date				
Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date		nformal Patent Application (PTO-152))			

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DETAILED ACTION

Response to Amendment

- 1. The amendment filed April 14, 2006 has been entered and new claim 28 has been added.
- 2. Submission of the translation of the foreign language application (KR 2001-10842) is acknowledged. However, the declaration is not acceptable since it is not in accordance with 37 CFR 1.68.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al. ("Chang") US PG-Pub 2002/0153527 in view of Yamazaki et al. ("Yamazaki") USPN 5,568,288.

Chang discloses in figs. 1A-1F a thin film transistor (TFT), comprising: a substrate; a semiconductor layer 102 formed over said substrate having end portions; a first insulating layer 104 disposed on said semiconductor layer so as to expose ones of the end portions of said semiconductor layer; a gate electrode 108 formed over said first insulating layer; a capping layer (upper portion of region 114) formed over said gate electrode; spacers (portions of region 114 on both sidewall portions of gate electrode 76) formed over said first insulating layer and on both sidewall portions of said gate electrode and said capping layer; high-density source and drain regions 116 formed at the ones of the end portions of said semiconductor layer exposed beyond

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said spacers, the high-density source and drain regions spaced apart from the gate electrode and the capping layer; low-density source and drain regions 110 having a same conductivity as high-density source and drain regions formed at regions of said semiconductor layer under said spacers between the gate electrode and the high density source and drain regions, thereby providing said semiconductor layer with lightly doped drain (LDD) regions under said spacers, but lacks anticipation of source and drain electrodes contacting high density source and drain regions without contact holes.

Yamazaki discloses in figs. 21 and 22 a thin film transistor (TFT), comprising: a substrate; a semiconductor layer formed over said substrate having end portions; a gate electrode 107 formed over an insulating layer 103; and source and drain electrodes 102 which respectively contact high density source and drain regions 104/105 without contact holes.

Therefore, in view of Yamazaki, one having ordinary skill in the art at the time the invention was made would be motivated to modify Chang's device by incorporating the teachings of Yamazaki so as to complete the thin film transistor as taught by Yamazaki.

Regarding claim 14, Chang discloses (Pars. 0029 and 0032) said first insulating layer, said capping layer and said spacer are of an oxide.

Allowable Subject Matter

- 4. Claims 22, 24, 25 and 27 are allowed.
- 5. Claims 15, 16, 26 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments with respect to claims 12, 14-16, 22 and 24-28 have been considered. While the arguments with respect to 22, 24, 25 and 27 and 15, 16, 26 and 28 are moot, the rejection of claims 12 and 14 are maintained since the declaration is not in accordance with 37 CFR 1.68 which states that any document to be filed in the Patent and Trademark Office and which is required by any law, rule, or other regulation to be under oath may be subscribed to by a written declaration. Such declaration may be used in lieu of the oath otherwise required, if, and only if, the declarant is on the same document, warned that willful false statements and the like are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon. The declarant must set forth in the body of the declaration that all statements made of the declarant's own knowledge are true and that all statements made on information and belief are believed to be true.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

SUPERVISORY PRESIDENCE TECHNOLOGY CENTER 2800

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (571) 272-1921.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ANS June 18, 2006